

TRANSLATION**PATENT COOPERATION TREATY****PCT****INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2003P12914WO	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/EP2004/051766	International filing date (<i>day/month/year</i>) 11.08.2004	Priority date (<i>day/month/year</i>) 12.11.2003
International Patent Classification (IPC) or national classification and IPC H02P6/08 H02P6/14		
Applicant SIEMENS AKTIENGESELLSCHAFT		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising: a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of <u>6</u> sheets, as follows: <input type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
4. This report contains indications relating to the following items: <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/051766

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ This report is based on translations from the original language into the following language _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rule 12.3 and 23.1(b))
- ☐ publication of the international application (Rule 12.4)
- ☐ international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 2-4, 6-14 as originally filed/furnished
- pages* 1, 1a, 5 received by this Authority on 14.04.2005 with letter of 04.04.2005
- pages* _____ received by this Authority on _____
- ☒ the claims:
- nos. _____ as originally filed/furnished
- nos.* _____ as amended (together with any statement) under Article 19
- nos.* 1-11 received by this Authority on 14.04.2005 with letter of 04.04.2005
- nos.* _____ received by this Authority on _____
- ☒ the drawings:
- sheets 1/5-5/5 as originally filed/furnished
- sheets* _____ received by this Authority on _____
- sheets* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
- ☐ the description, pages _____
- ☐ the claims, nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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International application No.

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement																								
1.	Statement <table border="0"><tr><td>Novelty (N)</td><td>Claims</td><td><u>1-11</u></td><td>YES</td></tr><tr><td></td><td>Claims</td><td><u></u></td><td>NO</td></tr><tr><td>Inventive step (IS)</td><td>Claims</td><td><u>1-11</u></td><td>YES</td></tr><tr><td></td><td>Claims</td><td><u></u></td><td>NO</td></tr><tr><td>Industrial applicability (IA)</td><td>Claims</td><td><u>1-11</u></td><td>YES</td></tr><tr><td></td><td>Claims</td><td><u></u></td><td>NO</td></tr></table>	Novelty (N)	Claims	<u>1-11</u>	YES		Claims	<u></u>	NO	Inventive step (IS)	Claims	<u>1-11</u>	YES		Claims	<u></u>	NO	Industrial applicability (IA)	Claims	<u>1-11</u>	YES		Claims	<u></u>	NO
Novelty (N)	Claims	<u>1-11</u>	YES																						
	Claims	<u></u>	NO																						
Inventive step (IS)	Claims	<u>1-11</u>	YES																						
	Claims	<u></u>	NO																						
Industrial applicability (IA)	Claims	<u>1-11</u>	YES																						
	Claims	<u></u>	NO																						
2.	Citations and explanations (Rule 70.7) <p>D1: GB-A-2 388 090 (INT RECTIFIER CORP), 5 November 2003 (2003-11-05)</p> <p>Object</p> <p>The application relates to a process for controlling an electromotor, in which process a commutation angle is continuously varied for phase commutation purposes.</p> <p>Differentiating technical features</p> <p>Document D1 is regarded as the best prior art. It describes a process for controlling an electromotor, in which process a commutation angle is varied for phase commutation purposes in that a variable angle is added to the commutation angle (page 8, lines 11-16).</p> <p>The application contains two independent claims, a process claim (claim 1) and a device claim (claim 10). Claim 1 differs from the prior art by its characterising features. Claim 10 corresponds to claim 1.</p> <p>Claims 1-11 are thus novel.</p> <p>Problem addressed</p> <p>The invention addresses the problem defined on page 2, line 26 to page 3, line 12, of the application. The</p>																								

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

continuous variation of the commutation angle avoids, in particular, irregularities in the operation of the motor.

The technical solution defined in claim 1 is an alternative to the solution in D1. This solution is not obvious to a person skilled in the art.

Claims 1-11 are thus inventive.